

34704-903

6/25/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

Premjit Halarnkar, Ph.D., MPA
Loveland Products
PO Box 1286
Greeley, CO 80632

JUN 25 2013

Subject: Addition of succulent green bean use restrictions and accompanying language
Acephate 97 EG
EPA Reg. No.: 34704-903
Submission date: March 4, 2013
Decision #: 477706

Dear Dr. Halarnkar:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. If you have any questions regarding this label, please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Sincerely yours,

A handwritten signature in black ink that reads "Venus Eagle". The signature is written in a cursive style and extends to the right with a long horizontal line.

Venus Eagle
Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure- Stamped Label

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ACEPHATE 97 EG

SOLUBLE INSECTICIDE

ACTIVE INGREDIENT:		BY WT
Acephate (O,S-Dimethyl acetylphosphoramidothioate)	97.4%
OTHER INGREDIENTS	2.6%
	TOTAL	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
Acephate is an organophosphate, cholinesterase inhibitor.	
If swallowed:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Note to Physician: This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

ACCEPTED

JUN 25 2013

EPA REG. NO. 34704-903

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:

EPA EST. NO. 34704-MS-001

NET WEIGHT 1.0 LB (453.6 G)

EXP 02/13 RED

EPA. Reg. No: 34704-903

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**ACEPHATE 97 EG
EPA REG. NO. 34704-903**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated areas until sprays have dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A, on an EPA chemical resistance category selection chart.

Mixers loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical resistant gloves such as butyl rubber \geq 14 mils, or nitrile rubber \geq 14 mils and neoprene \geq 14 mils and
- Shoes plus socks.

In addition, all mixers and loaders and all applicators using low pressure hand wand application equipment must wear:

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

See engineering controls for additional requirements.

Engineering Controls Statements

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposing of equipment washwaters. Cover or soil-incorporate spills.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permitted and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

This product and its degradate are highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Application Intervals for all agricultural and non-agricultural crops: Spray intervals of 3 days for applications rates up to 0.5 pound active ingredient per acre and 7 days for application rates greater than 0.5 pound active ingredient per acre must be followed.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

USE INSTRUCTIONS

For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control.

Do not apply using low pressure handwand equipment except for use as a mound treatment for control of fire ants and for use on ornamental trees, shrubs and floral plants as a non-agricultural use.

Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on ornamental, floral and foliage plants and tobacco (floatbed application).

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions, (e.g., wind directions, wind speed, temperature, relative humidity) and method of application (e.g. ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. [This sentence to be used for products NOT containing "NON-CROP AREAS- Wasteland": Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water. [This sentence to be used for products containing "NON-CROP AREAS - Wasteland: Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water, except as specified in the instructions for "NON-CROP AREAS - Wasteland".]
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph).
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety).
- For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.
- For ground applications, do not apply at heights greater than 4 feet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in the box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Chemical resistant gloves made of any waterproof material and
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter until sprays have dried.

**ACEPHATE 97 EG
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TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label for each product to be used in the tank mix with this product.

DIRECTIONS

CHEMIGATION

Apply to Cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

MIXING INSTRUCTIONS

Thoroughly clean all sprayer components prior to mixing. Add approximately 1/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of Acephate 97 EG insecticide and mix thoroughly. Then add other tank mix partners or foliar feed additives and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

For application equipment, which has the minimal agitation such as tobacco transplant water equipment, proper attention to mixing the Acephate 97 EG product should be given. With tobacco transplant water applications the Acephate 97 EG product should be premixed in water to form a slurry prior to putting the product into the transplant water applicator. If premixing is not done, then adequate time should be allowed for the product to dissolve in the transplant water prior to beginning application.

BEANS AND LIMA BEANS – (Dry and Succulent) excluding succulent green beans unless grown for seed

Use on succulent green beans as a food crop is prohibited (includes string beans, snap beans, and wax beans). Succulent green beans use is permitted ONLY if grown for seed.

TABLE 1. Beans and Lima Beans

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 20.0 to 100 gal/A of spray By Air: Minimum of 2.0 gal/A of spray	Fleahoppers Grasshoppers	0.25 to 0.5 0 lb (4.0 to 8.0 oz)	14 (dry beans)
	Aphids (excluding Black bean aphid) Bean leaf beetle Bean leafroller Cabbage looper Cutworms Green cloverworm Leafhoppers Mexican bean beetle Plantbugs (Lygus) Soybean looper Thrips Whitefly (except Sweet potato or Silverleaf whitefly)	0.50 to 1.0 lb (8.0 to 16.0 oz)	24 hr (lima beans - succulent form)
	Armyworms (excluding Beet armyworm) Corn earworm European corn borer	0.75 to 1.0 lb (12.0 to 16.0 oz)	

USE INFORMATION: Apply when eggs or insects first appear. Repeat at 7- to 10-day spray intervals as necessary to maintain control. Use the higher specified rate within the rate range for severe insect infestations.

USE RESTRICTIONS: Do not apply more than 2.125 pounds per acre (2.0 pounds active ingredient) per season. Do not feed crop residues to livestock or allow animals to graze. Do not apply to succulent beans grown for fresh market or processing. No portion of the succulent bean plant may be used or distributed for food or feed purposes. Seeds grown from succulent beans shall bear a tag or container label which forbids use of the seed for human consumption or animal feed. Seeds grown from succulent beans may not be distributed for human consumption or animal feed.

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CELERY

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TABLE 2. Celery

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 50.0 to 100 gal/A of spray By Air: Minimum of 5.0 gal/A of spray	Green peach aphid	0.50 to 1.0 lb (8.0 to 16.0 oz)	21
	Cabbage looper Fall armyworms	1.0 lb (16.0 oz)	

USE INFORMATION: Apply when eggs or insects first appear. Repeat at 3- to 10-day spray intervals as necessary to maintain control*

USE RESTRICTIONS: All celery must be trimmed (tops removed) before shipment for use. Do not use trimmed tops for food or feed. *Do not apply more than 2-1/8 pounds per acre (2.0 pounds active ingredient) per crop cycle.

COLE CROPS - BRUSSELS SPROUTS & CAULIFLOWER

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TABLE 3. Cole Crops – Brussels sprouts & Cauliflower

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 25.0 to 150 gal/A of spray By Air: Minimum of 5.0 gal/A of spray	Green peach aphid	1/2 to 1.0 lb (8.0 to 16.0 oz)	14
	Cabbage looper Diamondback moth larvae Imported cabbage worm	1.0 lb (16.0 oz)	

USE INFORMATION: Use the higher specified rate within the rate range when heavy infestations of aphids are present. Apply when eggs or insects first appear. Repeat application as necessary to maintain control. **Diamondback moth larvae:** This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.

USE RESTRICTIONS: Do not apply more than 2-1/8 pounds per acre (2.0 pounds active ingredient) per season to Brussels sprouts and Cauliflower. Do not feed trimmings to livestock or allow animals to graze in treated areas.

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COTTON

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

USE RESTRICTIONS

Do not use treated seed for food or feed purposes for oil. Do not feed treated forage or gin trash to livestock. Do not allow animals to graze on treated areas.

**Do not apply more than 4.12 pounds per acre (4.0 pounds active ingredient) per season. This includes all methods of application.

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

Aerial Applications on Cotton: Limit 1.0 pound active ingredient per acre to cotton grown in California and Arizona. Limit 0.75 active ingredient per acre for all other areas of the United States.

TABLE 5. Cotton

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
IN FURROW By Ground: 3.0 to 5.0 gal/A of spray	Aphids* Black (Greasy) cutworm (except CA) Thrips (including Western flower thrips)	0.5 to 1.0 lb (8.0 to 16.0 oz) NOTE: For the Blacklands of TX use 1.0 lb/A Acephate 97 EG.	
	USE INFORMATION: Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray system tubing to furrow opener and check frequently to ensure proper positioning and operation. Acephate 97 EG can be mixed with fungicides that are sprayed in-furrow for disease control.		
FOLIAR By Ground: 10.0 to 25.0 gal/A of spray By Air: 3.0 to 10.0 gal/A of spray (minimum 5.0 gal/A in AZ & CA)	Thrips (Including Western flower thrips)	2.5 oz to 3.0 oz	21
	USE INFORMATION: Apply when eggs or insects first appear. Repeat application as necessary to maintain control.		
	Plantbugs (Lygus)	0.25 to 1.0 lb (4.0 to 16.0 oz) 0.75 to 1.0 lb (AZ & CA)	21
	USE INFORMATION: Apply when eggs or insects first appear. Use the highest specified rate within the rate range for Lygus adults that have migrated into cotton. Repeat application as necessary to maintain control.		
	Fleahopper	0.25 lb (4.0 oz)	21
	USE INFORMATION: Apply when eggs or insects first appear. Repeat application as necessary to maintain control.		
	Cotton aphid (excluding AZ & CA)	0.5 to 1.0 lb (8.0 to 16.0 oz)	21
USE INFORMATION: This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application as necessary to maintain control.			
By Ground: 10.0 to 25.0 gal/A of spray By Air: 3.0 to 10.0 gal/A of spray (minimum of 5.0 gal/A in AZ & CA)	Whitefly (excluding Sweet potato whitefly/Silverleaf whitefly)	0.5 to 1.0 lb (8.0 to 16.0 oz)	21
	USE INFORMATION: Repeat application as necessary to maintain control.		
	Armyworms (excluding Beet armyworm) Cabbage looper	1.0 lb (16.0 oz)	21
	USE INFORMATION: Apply when eggs appear and repeat at 3- to 7-day spray intervals.		
	Bollworm Tobacco budworm adults/larvae	0.5 to 1.0 lb (8.0 to 16.0 oz) (East of Rockies)	21
	Eggs/Deadhatch®	1.0 lb (AZ & CA) (0.25 to 0.5 lb)	

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TABLE 5. Cotton cont'd.:

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
	USE INFORMATION: Early Season: Use 0.5 pound per acre for light infestation. Mid and Late Season: Use 0.75 pound per acre for moderate to severe infestations. Apply when eggs appear and repeat at 3- to 7-day spray intervals. Moths of Budworm larvae are controlled by direct contact with spray. Moth kill most likely to occur when late evening applications are made. Deadhatch: Control of emerging larvae by consumption of treated egg casings.		
	Stinkbugs	0.75 lb (12 oz)	21
	USE INFORMATION: Apply when eggs appear and repeat at 3- to 7-day spray intervals.		
	Pink bollworm (AZ & CA)	1.0 lb (16.0 oz)	21
	USE INFORMATION: Apply when insects appear and repeat at 5- to 7-day spray intervals.		
	Cutworms	0.75 lb (12.0 oz)	21
	USE INFORMATION: Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat application as necessary to maintain control.		

Resistance Management: Cotton pest control programs should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

COTTON TANK MIXES

USE RESTRICTIONS:

Do not feed gin trash or treated forage to livestock.

Do not allow livestock to graze on treated areas.

**Do not apply more than 4.12 pounds per acre (4.0 pounds active ingredient) per season. This includes all methods of application.

Aerial Applications on Cotton: Limit 1.0 pound active ingredient per acre to cotton grown in California and Arizona. Limit 0.75 pound active ingredient per acre for all other areas of the United States.

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

Days to Harvest: 21

TABLE 6. Cotton Tank Mixes

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 97 EG AND TANK MIX PARTNER	AMOUNT OF ACEPHATE 97 EG + TANK MIX PARTNER PER ACRE
FOLIAR	Sweet potato whitefly (Silverleaf whitefly)	Acephate 97 EG + Danitol® 2.4 EC	0.5 to 1.0 lb (8.0 to 16.0 oz) + 8.0 to 16.0 fl oz
By Ground: 10.0 to 25.0 gal/A	USE INFORMATION: User should comply with all applicable directions, of spray restrictions and precautions on the EPA registered label for Danitol 2.4 EC Spray. Use a minimum application rate of 10.6 fluid ounces per acre. Danitol (0.2 pound active ingredient per acre) in CA and AZ.		
By Air: 3.0 to 10.0 gal/A of spray (minimum 5.0 gal/A in CA)	Armyworms (excluding Beet armyworm) Bollworm Cabbage looper Cotton aphid Cutworms Fleahopper Grasshoppers Pink bollworm Plantbugs (Lygus, Mirids) Salt marsh caterpillar	Acephate 97 EG + Lorsban® 4E	0.25 to 1.0 lb (4.0 to 16.0 oz) + 1.0 to 2.0 pt

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TABLE 6. Cotton Tank Mixes cont'd.:

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 97 EG AND TANK MIX PARTNER	AMOUNT OF ACEPHATE 97 EG + TANK MIX PARTNER PER ACRE
	Thrips (including Western flower thrips) Tobacco budworm Whitefly (excluding Sweet potato/ Silverleaf whitefly)	Acephate 97 EG + Lorsban® 4E	0.25 to 1.0 lb (4.0 to 16.0 oz) + 1.0 to 2.0 pt
<p>USE INFORMATION: User should comply with all applicable directions, restrictions and precautions on the EPA registered label for Lorsban 4E. Cutworms: Use 0.75 pound per acre of Acephate 97 EG. By Ground: Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. By Air: Aerial applications are less effective, but may be used. Apply when insects first appear or when damage is first noted and repeat application as necessary to maintain control.</p>			

Resistance Management: Cotton pest control programs, especially those for control of Silverleaf whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

COTTON TANK MIXES WITH PYRETHROIDS

USE RESTRICTIONS

Do not feed gin trash or treated forage to livestock.

Do not allow livestock to graze on treated areas.

**Do not apply more than 4.12 pounds per acre (4.0 pounds active ingredient) per season. This includes all methods of application.

Use synthetic pyrethroids within the guidelines of state and/or regional resistance management programs and recommendations.

Aerial Applications on Cotton: Limit 1.0 pound active ingredient per acre to cotton grown in California and Arizona. Limit 0.75 pound active ingredient per acre for all other areas of the United States.

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

Days to Harvest: 21

TABLE 7. Cotton Tank Mixes with Pyrethroids

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 97 EG AND TANK MIX PARTNER	AMOUNT OF ACEPHATE 97 EG + TANK MIX PARTNER PER ACRE
<p>FOLIAR</p> <p>By Ground: 10.0 to 25.0 gal/A spray By Air: 3.0 to 5.0 gal/A spray (minimum 5.0 gal/A in CA) See aerial use information for Cutworms.</p>	<p>Aphids Bollworm Cabbage looper Cotton leaf perforator Cutworms Fall armyworm Fleahoppers Pink bollworm (AZ & CA) Plantbugs Stinkbugs Sweet potato/Silverleaf whitefly Thrips (including Western flower) Tobacco budworm Whitefly</p>	<p>Acephate 97 EG + one of the following: Ammo® 2.5 EC* Asana® XL* Baythroid® 2EC</p>	<p>0.5 to 1.0 lb/A (8.0 to 16.0 oz) + one of the following: Refer to the Ammo 2.5 EC approved label for use instructions. Refer to the Asana XL approved label for use instructions. Refer to the Baythroid 2EC approved label for use instructions.</p>

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TABLE 7. Cotton Tank Mixes with Pyrethroids cont'd.:

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 97 EG AND TANK MIX PARTNER	AMOUNT OF ACEPHATE 97 EG + TANK MIX PARTNER PER ACRE
		Capture® 2 EC	Refer to the Capture 2 EC approved label for use instructions.
		Karate® 1 E (except CA)	Refer to the Karate 1 E approved label for use instructions.
		Scout X-TRA® (except CA)	Refer to the Scout X-TRA approved label for use instructions.

USE INFORMATION: Apply when eggs or insects first appear. Repeat application as necessary to maintain control. **Stinkbugs:** Use 0.75 pound per acre of Acephate 97 EG. **Cutworms:** Use 3/4 pound per acre of Acephate 97 EG.

By Ground: Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.

By Air: 3.0 to 10.0 gallons per acre spray (minimum 5.0 gallons per acre in CA). Aerial applications are less effective, but may be used. Apply when eggs first appear or damage is first noted. Repeat application as necessary to maintain control.

Resistance Management: Cotton pest control programs, especially those for control of Silverleaf whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies should include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

CRANBERRY

TABLE 8. Cranberry

APPLICATION METHOD	PESTS CONTROLLED	RATE OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR	Cranberry blossom worm Cranberry cutworm	1.0 lb (16.0 oz)	75
By Ground or Sprinkler: Sufficient water to give thorough coverage.	Gypsy moth False armyworm Fireworms		
By Air: Minimum of 2.0 gal/A of spray	Spanworms Sparganothis		

USE INFORMATION: SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES: This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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TABLE 8. Cranberry cont'd.:

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Solid Set System: Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See NOTE.

Center Pivot Systems: Inject the specified dosage per acre continuously for one complete revolution of the system.

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing.

Application of more than label-recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

USE RESTRICTIONS: Limit to one application per growing season. Do not apply more than 1.0 pound (1.0 pound active ingredient) per season. Do not apply from start of bloom until all berries set.

HEAD LETTUCE – Crisphead Type Only

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TABLE 9. Head Lettuce (Crisphead Type Only)

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 10.0 to 60.0 gal/A of spray broadcast By Air: Minimum of 5.0 gal/A of spray	Aster leafhopper Green peach aphid	0.5 to 1.0 lb (8.0 to 16.0 oz)	21 Spring, Summer and early Fall crops in all areas, Winter crops in FL and TX, late Fall crops in AZ and Winter crops in AZ and CA.
	Armyworms (excluding Beet armyworm) Cabbage looper	1.0 lb (16.0 oz)	

USE INFORMATION: Repeat application as necessary to maintain control.

USE RESTRICTIONS: *Do not apply more than 2.125 pounds per acre (2.0 pounds active ingredient) per season. Do not feed trimmings to livestock or allow animals to graze on treated areas. **AZ & CA, Desert Areas:** Do not apply after first head begins to form in crops which germinate from mid-September through November.

**MINT
PEPPERMINT AND SPEARMINT**

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TABLE 10. Mint – Peppermint and Spearmint

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 20.0 to 100 gal/A of spray By Air: 5.0 to 10.0 gal/A of spray	Alfalfa looper Aphids Cutworms	1.0 lb (16.0 oz)	14

USE INFORMATION: Apply when eggs or insects first appear. Make one repeat application at a minimum of a 7-day interval, if necessary, to maintain control.

USE RESTRICTIONS FOR ALL APPLICATION METHODS: Do not apply more than 2.125 pounds per acre (2.0 pounds active ingredient) per season. Do not graze treated areas.

FOLIAR By Ground: 40.0 to 100 gal/A of spray	Strawberry root weevil adult Black vine weevil adult	1.0 lb (16.0 oz)	14
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Peppermint and Spearmint cont'd.:

USE INFORMATION: Strawberry Root and Black Vine Weevil: For control, apply in water in a minimum of 40.0 gallons spray per acre by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm still evening. Two applications 10 to 14 days apart may be necessary to reduce heavy infestations.

USE RESTRICTIONS FOR ALL APPLICATION METHODS: Do not apply more than 2.125 pounds per acre (2.0 pounds active ingredient) per season. Do not graze treated areas.

NON-BEARING CITRUS – RECOMMENDATIONS FOR USE IN AGRICULTURAL SETTINGS

(Newly Planted Groves)

USE RESTRICTIONS

Do not graze treated areas.

DO NOT HARVEST citrus for one year after treatment.

TABLE 11. Non-Bearing Citrus

APPLICATION METHOD	PESTS CONTROLLED	RATE OF ACEPHATE 97 EG PER ACRE
FOLIAR By Ground: 100 to 200 gal/A of spray	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweet potato/Silverleaf)	0.5 lb (8.0 oz)
	For repeat applications, use a minimum spray interval of 3 days.	
	Citrus blackfly*	0.5 to 0.75 lb (8.0 to 12.0 oz)
	USE INFORMATION: Apply when eggs or insects first appear. Use the higher specified rate within the rate range when a heavy infestation is present. For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.	
	Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants)	0.75 lb (12.0 oz)
For repeat applications, use a minimum spray interval of 7 days.		
Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.		
SOIL MOUND TREATMENT	Ants (excluding Carpenter and Pharaoh ants)*	0.75 oz/5.0 gal
DRENCH METHOD		
USE INFORMATION: Apply 1.0 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound. For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.		
*Not registered in CA for control of Citrus blackfly and Harvester ants.		

NON-CROP AREAS — FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, BORROW PITS

TABLE 12. Non-Crop Areas – Field borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE
FOLIAR	Grasshoppers	0.25 lb (4.0 oz)
By Ground: 10.0 to 20.0 gal/A of spray		
By Air: 1.0 to 5.0 gal/A of spray (minimum of 5.0 gal/A in CA)		
USE INFORMATION: For early to mid-season application. Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.		
USE RESTRICTION: Do not graze or feed vegetation cut from treated areas. Do not apply using low pressure handwand equipment except for use as a mound treatment for control of fire ants and for use on ornamental trees, shrubs and floral plants as a non-agricultural use.		

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WASTELAND

TABLE 13. Non-Crop Areas – Wasteland

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE
FOLIAR By Ground: 10.0 to 20.0 gal/A of spray By Air: 0.5 gal/A of spray (minimum of 5.0 gal/A in CA)	Black grass bugs Grasshoppers Mormon crickets	1.5 to 2.0 oz

USE INFORMATION: Use the higher volumes within the rate range when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

USE RESTRICTIONS: Do not make more than 1 application per season. Do not graze or feed vegetation cut from treated areas. Do not apply using low pressure handwand equipment except for use as a mound treatment for control of fire ants and for use on ornamental trees, shrubs and floral plants as a non-agricultural use.

PEANUTS

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TABLE 14. Peanuts

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 10.0 to 50.0 gal/A of spray By Air: 5.0 to 10.0 gal/A of spray	Grasshoppers Thrips Corn earworm Fall armyworm Leafhoppers Loopers Velvetbean caterpillar	0.25 to 0.5 lb (4.0 to 8.0 oz) 0.375 to 0.75 lb (6.0 to 12.0 oz) 0.75 to 1.0 lb (12.0 to 16.0 oz)	14 (of digging)

USE INFORMATION: Apply when eggs or insects first appear. Repeat application as necessary to maintain control. Acephate 97 EG can be tank mixed with registered at-cracking and early post-emergence peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are observed, and provided no label dosage rates are exceeded. To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation which cannot be remixed readily, Loveland Products, Inc. recommends that the combination not be used. Combinations should be kept agitated and should be applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.

USE RESTRICTIONS: Do not feed treated forage or hay to livestock. Do not allow animals to graze on treated areas. Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per crop cycle.

PEPPERS

Minimum spray intervals for application rates of 0.5 pound active ingredient per acre and less; 3 days. Minimum spray interval for rates greater than 0.5 pound active ingredient per acre; 7 days must be observed.

BELL PEPPERS

TABLE 15. Peppers – Bell

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR By Ground: 25.0 to 150 gal/A of spray By Air: Minimum of 3.0 gal/A of spray (minimum of 5.0 gal/A in CA).	Grasshoppers Cabbage looper Green peach aphid Tobacco hornworm European corn borer	0.25 to 0.5 lb (4.0 to 8.0 oz) 0.5 to 1.0 lb (8.0 to 16.0 oz) 0.75 to 1.0 lb (12.0 to 16.0 oz)	7

USE INFORMATION: Apply when eggs or insects first appear.

USE RESTRICTION: Do not apply more than 2.125 pounds per acre (2.0 pounds active ingredient) per season.

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NON-BELL

FOR USE IN MIDWESTERN, EASTERN STATES (AL, AR, CT, DE, DC, FL, GA, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, NE, NH, NJ, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, VT, VA, WV, WI) AND PUERTO RICO ONLY.

Table 16. Peppers – Non-bell

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR	Aphids	0.5 lb (8.0 oz)	7
By Ground: 40.0 to 150 gal/A of spray.			

For repeat application, use a minimum spray interval of 3 days.

USE RESTRICTION: *Do not apply more than 1.0 pound per acre (1.0 pound active ingredient) per season.

SOYBEANS

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

Table 17.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
FOLIAR	Grasshopper Thrips	0.25 to 0.5 lb	14
By Ground: 10.0 to 50.0 gal/A of spray By Air: 5.0 to 10.0 gal/A of spray	Potato leafhopper Stink bugs	0.5 to 1.0 lb	
	Armyworms (except Beet) Bean leaf beetle Cabbage looper Green cloverworm Mexican bean beetle Soybean aphid Threecornered alfalfa hopper Velvetbean caterpillar	0.75 to 1.0 lb	

USE INFORMATION: Repeat treatment as necessary to maintain control, but do not exceed a maximum of 1.5 pounds per acre (1.5 pounds active ingredient per acre) per season.

USE RESTRICTIONS: Do not graze or cut vines for hay or forage. Do not apply more than 1.5 pounds active ingredient per acre per season. Do not apply within 14 days of harvest

TOBACCO

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

Transplant-water applications should be made using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.

TABLE 18. Tobacco Transplant Water Application

CROP	INSECTS	AMOUNT OF ACEPHATE 97 EG PER ACRE
Tobacco	Cutworms Flea beetle Green peach aphid Potato tuberworm Tobacco aphid Tobacco thrips	0.75 lb (12.0 oz)

USE RESTRICTIONS: Provides control of early season Flea Beetles, Green Peach Aphids, Tobacco Aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of Acephate 97 EG.

Apply in a minimum of 100 gallons of transplant water per acre. Acephate 97 EG should be pre-mixed in water to form a slurry solution prior to adding to the transplant water tank.

Do not apply more than 0.75 pound Acephate 97 EG per acre as a transplant water application as some phytotoxicity may occur.

Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per season. This includes the use of Acephate 97 EG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

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TOBACCO FOLIAR APPLICATION (EXCEPT CA)

TABLE 19. Tobacco Foliar Application

CROP	INSECTS	AMOUNT OF ACEPHATE 97 EG PER ACRE	DAYS TO HARVEST
Tobacco (Flue-cured, Air cured, Dark fire cured)	Grasshoppers	0.25 to 0.50 lb (4.0 to 8.0 oz)	3
	Green peach aphid	1/2 lb (8.0 oz)	
	Flea beetle		
	Hornworm		
	Tobacco thrips		
	Stinkbugs	0.5 to 0.75 lb (8.0 to 12.0 oz)	
	Tobacco aphid		
	Vegetable weevils		
	Budworm	0.75 lb	
	Cabbage looper	(12.0 oz)	
	Cutworm		
	Japanese beetle		

USE RESTRICTIONS: Apply in 10.0 to 50.0 gallons water per acre with ground equipment or a minimum of 3.0 gallons per acre by air. Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per season. This includes the use of Acephate 97 EG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

TOBACCO PLANT BED APPLICATION (EXCEPT CA)

TABLE 20. Tobacco Plant Bed Application

CROP	INSECTS	AMOUNT OF ACEPHATE 97 EG PER ACRE
Tobacco Bed Treatment	Cutworm Flea beetle Green peach aphid Tobacco aphid	0.75 lb (12.0 oz)

USE RESTRICTIONS: Apply to foliage at the equivalent of 0.75 tablespoon in 1.0 gallon water per every 1000 square feet of bed. Apply evenly to insure thorough coverage. Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per crop cycle. This includes the use of Acephate 97 EG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. For repeat applications, use a minimum spray interval of 7 days.

TOBACCO GREENHOUSE APPLICATION (EXCEPT CA)

TABLE 21. Tobacco Greenhouse Application

CROP	INSECTS	AMOUNT OF ACEPHATE 97 EG PER ACRE
Tobacco	Cutworm Flea beetle Green peach aphid Tobacco aphid	0.75 lb (12.0 oz)

USE RESTRICTIONS: Apply to foliage at the equivalent of 0.75 tablespoon in 3.0 gallons water per every 1000 square feet of bed. Apply evenly to insure thorough coverage. Floatbed water should be disposed of in the transplanted field in either transplant water or foliar spray. Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per season. This includes the use of Acephate 97 EG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. For repeat applications, use a minimum spray interval of 7 days.

TOBACCO SOIL APPLICATION (EXCEPT CA)

TABLE 22. Tobacco Soil Application

CROP	INSECTS	AMOUNT ACEPHATE 97 EG	DAYS TO HARVEST
Tobacco	Ants (excluding Carpenter, Fire, Harvester and Pharaoh)	Mound Treatment - Drench Method: Mix 0.75 oz in 5.0 gal of water. Apply 1.0 gal of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) ft diameter circle around the mound.	3

USE RESTRICTIONS: For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Treat maximum of 13 mounds per acre. Do not treat more than once per season. Do not apply more than 4.125 pounds per acre (4.0 pounds active ingredient) per season. This includes the use of Acephate 97 EG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

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SMALL VOLUME SPRAY EQUIPMENT

Preparation of Acephate 97 EG Spray Mix Using a Small Fluid Ounce Measuring Cup

LABEL RECOMMENDATION ACEPHATE 97 EG IN 100 GAL OF WATER	EQUIVALENT ACEPHATE 97 EG IN 25.0 GAL OF WATER	EQUIVALENT ACEPHATE 97 EG IN 1.0 GAL OF WATER (TSP/GAL)
0.25 lb	1.0 oz	0.3 tsp
0.5 lb	2.0 oz	0.6 tsp
0.75 lb	3.0 oz	1.0 tsp
1.0 lb	4.0 oz	1.3 tsp

NON-BEARING CITRUS

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER ACRE	TIME OF APPLICATION
Non-bearing Citrus (including Citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plant bugs (Lygus) Thrips Whiteflies	0.5 lb (8.0 oz)	Apply as needed for control of existing populations.
	Citrus blackfly	0.5 to 0.75 lb (8.0 to 12.0 oz)	The higher specified rate within the rate range should be used when a heavy infestation of Citrus blackfly is present. Begin applications when eggs or adults first appear. Apply on a 7- to 10-day interval or as needed to maintain control.

USE RESTRICTIONS: Apply Acephate 97 EG in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.

Do not allow livestock to graze treated areas.

DO NOT HARVEST citrus for one year after treatment.

Non-bearing Citrus (including Citrus nursery seedlings)	Ants (excluding Carpenter, Fire, Harvester and Pharaoh)	Foliar Spray 0.75 lb (12.0 oz)	Apply as needed for control of existing populations. For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.
		Mound Treatment - Drench Method: Mix .075 oz in 5.0 gal of water. Apply 1.0 gal of mix to each mound until it is wet and treat a four (4) ft diameter circle around the mound.	

USE RESTRICTIONS: Apply Acephate 97 EG in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.

Do not allow livestock to graze treated areas.

DO NOT HARVEST citrus for one year after treatment.

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NURSERY STOCK

NON-BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELDS OR NON-BEARING ORCHARDS

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. Do not apply using low pressure handwand equipment except for use as a mound treatment for control of fire ants and for use on ornamental trees, shrubs and floral plants as a non-agricultural use. Spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER ACRE	TIME OF APPLICATION
Nursery Stock [Non-bearing Deciduous Fruit Trees, Nut Trees, Vines] Almond Apricot Apple Cherry Grape Kiwi Pear Pistachio Plum Prune Walnut	Aphids Plant bugs (Lygus) Thrips	0.50 to 1.0 lb (8.0 to 16.0 oz)	Apply as needed for control of existing populations.

USE INFORMATION: Apply Acephate 97 EG in 50.0 to 200 gallons of water per acre by ground and not less than 5.0 gallons of water per acre by air.

USE RESTRICTIONS: For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards. Do not apply to interplants or single trees in a bearing orchard. Do not harvest any fruit from sprayed trees for one-year after application.

SPECIALTY USES – NON CROP AREAS Limit 1 lb ai/A per 100 gallons of water (not to exceed 0.75 lbs ai/A for cut flowers and 1.0 lbs ai/A for all other ornamentals).

CROP	INSECTS	AMOUNT ACEPHATE 97 EG PER ACRE
Non-Crop Areas (field borders, fencerows, roadsides, ditchbanks, and borrow pits)	Grasshoppers	0.25 lb (4.0 oz)

USE RESTRICTIONS: For early to mid-season application to Grasshoppers in field borders, fencerows, roadsides, ditchbanks, and borrow pits. Apply in 1.0 to 5.0 gallons of water by air, or in 10.0 to 20.0 gallons of water with ground equipment. Use the higher volumes when spraying heavier foliage. Do not graze or feed vegetation cut from treated areas. Do not use on Turf.

Non-Crop Areas (field borders, fencerows, roadsides, ditchbanks, and borrow pits)	Ants (excluding Carpenter and Pharaoh)	Mound Treatment - Drench Method: Mix 0.75 oz in 5.0 gal of water. Apply 1.0 gal of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) ft diameter circle around the mound.
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USE RESTRICTIONS: For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated area may be injured. Do not treat mound more than once per season.

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SPECIALTY USES – CONTAINER GROWN ORNAMENTAL NURSERY STOCK

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre. Do not apply using low pressure handwand equipment except for use as a mound treatment for control of fire ants and for use on ornamental trees, shrubs and floral plants as a non-agricultural use. Limit 1 lb ai/A per 100 gallons of water (not to exceed 0.75 lbs ai/A for cut flowers and 1.0 lbs ai/A for all other ornamentals).

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER 100 GAL	TIME OF APPLICATION
Container Grown Ornamental Nursery Stock (Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)	Black vine weevil Strawberry root weevil	0.75 lb (12.0 oz)	Application should be made by mid- September for greenhouse stock and by mid October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.
	Ants (excluding Carpenter, Fire, Harvester and Pharaoh)	0.75 lb (12.0 oz)	Apply as needed to control the pest.

USE INFORMATION: Apply the specified amount of Acephate 97 EG per 100 gallons of solution so as to thoroughly drench the root system.

ORNAMENTAL TREES AND SHRUBS

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER 100 GAL	TIME OF APPLICATION
Trees and Shrubs (Except Flowering Crabapple, see below)	Aphids Bagworms Birch leafminer Lace bugs Leafrollers Tent caterpillars*	0.25 to 0.5 lb (4.0 to 8.0 oz)	As the insects begin to appear.
	Douglas fir tussock moth larvae Gypsy moth larvae* Webworms	0.5 lb (8.0 oz)	As the insects begin to appear.
	Scales (Crawlers)	0.5 lb (8.0 oz)	As Crawlers begin to appear. Repeat applications, at a 2-week or more interval, may be necessary where there is continuous Crawler production.
USE INFORMATION: Apply the specified amount of Acephate 97 EG in 100 gallons water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy moth larvae.			
*Mist blower application. Adjust rates to 1.0 pound per 100 gallons water for Gypsy moth control and 0.75 pound per 100 gallons water for Tent caterpillar control. Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy poplar and Viburnum suspensum.			
Nursery crops. Before treating large plantings, spray only a few plants and observe 2 weeks for phytotoxicity.			
	Ponderosa pine needle miner	0.5 lb (8.0 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent.
	Grasshoppers	0.5 lb (8.0 oz)	As the grasshoppers begin to appear.
USE INFORMATION: Apply the specified amount of Acephate 97 EG in 100 gallons water with a hydraulic sprayer as a full coverage spray.			
	California oakworm Cankerworms (Spring and Fall)	0.25 to 0.5 lb (4.0 to 8.0 oz)	As the insects begin to appear. Use the higher specified rate within the rate range when the larvae are present.
	Nantucket pine tip moth larvae	0.75 lb (12.0 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.
USE INFORMATION: Apply the specified amount of Acephate 97 EG in 100 gallons of water with a hydraulic sprayer.			
	Root weevil adults (12.0 oz)	0.75 lb	Apply when first feeding damage occurs. Repeat applications, at 4-week intervals until the first heavy frost, may be necessary for complete foliage protection.

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Ornamental Trees and Shrubs cont'd.:

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER 100 GAL	TIME OF APPLICATION
	Box elder bugs Budworms Leafhoppers Sawflies	0.75 lb (12.0 oz)	As the insects begin to appear.
	Japanese beetle	1.0 lb (16.0 oz)	As the Japanese beetles begin to appear. Repeat applications, at 2-week intervals, may be necessary.
	USE INFORMATION: Apply the specified amount of Acephate 97 EG in 100 gallons water with a hydraulic sprayer as a full coverage spray.		
	Elm leaf beetle (larvae)	1.0 lb (16.0 oz)	As the larvae begin to appear. Acephate 97 EG will not prevent Elm leaf beetle eggs from hatching.
	USE RESTRICTIONS: Apply the specified amount of Acephate 97 EG in 100 gallons water with a hydraulic sprayer as full coverage spray. Do not make more than 1 application per season.		
Douglas fir (Christmas trees)	Douglas fir needle midge	0.5 lb (8.0 oz) (0.5 lb/A)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.
USE INFORMATION: Apply the specified amount of Acephate 97 EG in not less than 2.0 gallons of spray per acre by air or in 100 gallons of spray per acre by ground.			
Flowering crabapples	Aphids Leafrollers Tent caterpillars	0.25 lb (4.0 oz)	As the insects begin to appear.
USE RESTRICTIONS: Apply the specified amount of Acephate 97 EG in 100 gallons water with a hydraulic sprayer. Do not apply more often than 3 times in a growing season at a 4-week interval. Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hoga, Ichonoski, Malusfloribunda, Pink perfection, Red wine and Snow cloud.			
Crape myrtle	Aphids	2.0 to 3.0 level tbsp (0.6 to 0.9 oz)/1.0 tbsp of water.	As Aphids begin to appear.
USE RESTRICTIONS: Make a paint-on slurry by mixing the specified amount of Acephate 97EG with 1.0 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants, be certain to treat all trunks. For either single or multi-trunk plants, application should be made as low as possible within the recommended treatment zone.			

GOLF COURSE AND SOD FARM TURFGRASS -

GOLF COURSE AND SOD FARM TURFGRASS RESTRICTIONS

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.

Maximum Application Rates: Limit 3.0 pounds active ingredient per acre for Sod farms. Limit 4.0 pound active ingredient per acre for Golf course.

Observe a 3 day pre-harvest interval (PHI) for harvesting sod.

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER 1000 SQ FT	TIME OF APPLICATION
Golf course and Sod farm turfgrass	Fall armyworm Southern armyworm Yellow striped armyworm	0.4 to 0.9 oz (1.0 to 2.5 lb/A)	As the insects appear. A repeat application at 2-week intervals may be necessary.
	Cutworm	0.9 to 1.8 oz (2.5 to 4.0* lb/A)	
	USE INFORMATION: Apply the specified amount of Acephate 97 EG per 1000 square feet. Use a minimum of 5.0 gallons water per 1000 square feet to obtain good coverage.		
	Chinch bugs	0.9 to 1.8 oz (2.5 to 4.0* lb/A)	Apply as needed for adult population knockdown (10 to 14 days).
	Fleas	0.9 to 1.8 oz. (2.5 to 4.0* lb/A)	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.

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Golf Course and Sod Farm Turfgrass cont'd.:

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG PER 1000 SQ FT	TIME OF APPLICATION
	Sod webworm (<i>Crambus</i> spp.)	0.4 to 0.8 oz (1.0 to 2.0 lb/A)	As Sod webworms begin to appear. Use the higher specified rate within the rate range when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1-week intervals.
	Leafhopper	0.8 oz (2.0 lb/A)	As the leafhoppers begin to appear. A repeat application at 1-week intervals may be necessary.
USE INFORMATION: Apply the specified amount of Acephate 97 EG per 1000 square feet. Use 1.0 to 15.0 gallons water per 1000 square feet to obtain good coverage.			
	Mole crickets (except CA) Spittlebug (except CA)	0.8 to 1.4 oz (2.0 to 3.9 lb/A)	As Mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher specified rate within the rate range.
USE INFORMATION: Apply the specified amount of Acephate 97 EG per 1000 square feet. Use 1.0 to 15.0 gallons water per 1000 square feet to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application. The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased Mole cricket contact with the Acephate 97 EG. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Myrt Products Manufacture-Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2.0 teaspoon per gallon of water for small total mix volumes or 6.0 fluid ounces per 50.0 gallons of water for large total mix volumes.			
	Greenbug (<i>Schizaphis graminum</i>) Grasshoppers	0.4 oz (1.0 lb/A)	Apply when insects or their damage first appears. Repeat as necessary. Application is not to be repeated at more than 1-week intervals.
USE INFORMATION: Apply the specified amount of Acephate 97 EG. Use 4.0 gallons of water per 1000 square feet to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.			
	Black turfgrass ataenius (except CA)	1.1 to 1.5 oz (3.0 to 4.0 lb/A)	Apply when insects or their damage first appear.
USE INFORMATION: Apply the specified amount of Acephate 97 EG per 1000 square feet. Use a minimum of 5.0 gallons of water per 1000 square feet. Irrigate lightly after application (not more than 1/2 inch.) Use the higher specified rate within the rate range for severe infestations.			
Dichondra (Plant site for Golf course and Sod farm turfgrass)	Armyworm southern yellow striped Cutworm Flea beetle	0.8 to 1.4 oz (2.0 to 3.9 lb/A)	As the insects appear. Repeat at 2-week intervals as necessary.
USE INFORMATION: Apply the specified amount of Acephate 97 EG per 1000 square feet. Use a minimum of 15.0 gallons of water per 1000 square feet to obtain good coverage.			

**MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.**

PLANTS	INSECTS	AMOUNT ACEPHATE 97 EG	TIME OF APPLICATION
Turfgrass Residential, Recreational, and Commercial turf	Imported fire ants and Harvester ants	Mound Treatment - Drench Method: Mix 0.75 oz in 5.0 gal water. Apply 1.0 gal of mix to each mound area by sprinkling the mound until it is wet and treat a) four (4) ft diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.
USE RESTRICTIONS: Apply the specified amount of Acephate 97 EG as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.			

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OUTDOOR AND PERIMETER SPRAY

LOCATION	INSECTS	AMOUNT ACEPHATE 97 EG PER GALLON	TIME OF APPLICATION
Outdoor and Perimeter area	Wasps	1.2 oz	Treat early or late in the day, as wasps are generally less active during these times.
	USE INFORMATION: Apply specified amount of Acephate 97 EG per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.		
	Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants) Crickets Cockroaches Earwigs Pillbugs	1.2 oz	As the insects appear.
USE INFORMATION: Apply specified amount of Acephate 97 EG per each gallon of water used. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.			

Pest Control Operator Use Restrictions: The use of low pressure hand wand for perimeter or wasp treatment is prohibited. Not for use on residential turf grass.

ORNAMENTAL PLANTS GROWN FOR CUT FLOWER PRODUCTION

USE RESTRICTIONS

- Do not apply more than 0.5 pound per acre Acephate 97 EG per 100 gallons of water.
- Do not exceed 0.75 pound per acre Acephate 97 EG for cut flowers.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound active ingredient per acre and 7 days for application rates greater than 0.5 pound active ingredient per acre.

PLANT	PESTS CONTROLLED	AMOUNT ACEPHATE 97 EG PER 100 GALS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Chrysanthemums Daisies Gladioli Roses	Aphid Lygus Thrips	0.5 lb (8.0 oz)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of Acephate 97 EG in 100 gal of water with a hydraulic sprayer as a full coverage spray. DO NOT EXCEED 12.0 OZ PER ACRE. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.

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**GREENHOUSE (Commercial only) AND OUTDOOR ORNAMENTAL PLANTS, FLORAL CROPS, GROUND COVERS AND FOLIAGE PLANT CROPS
(Plants Not Produced for Cut Flowers)**

USE RESTRICTIONS

- Not for residential greenhouse use.
- Do not apply more than 12.0 ounces (0.75 pound) of product per 100 gallons of water per acre.
- Do not apply with a low pressure hand wand.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 pound per acre and a minimum of 7 days for rates exceeding 0.5 pound per acre.
- **Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.**
- This product is sold by weight and package is full when packed and is inclined to settle.

PLANT	PESTS CONTROLLED	AMOUNT ACEPHATE 97 EG PER 100 GALS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Carnations Chrysanthemums	Aphid Thrips	0.5 lb (8.0 oz)	As Aphid begin to appear. As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of Acephate 97 EG in 100 gal of water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Carnations and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application to Chrysanthemums in flower may result in flower damage.
Floral Crops Dahlias Daisies Easter Lily Gladioli Gypsophila Pachysandra Pansy Peony Sedum Stance Strawflower Yarrow Zinnia Foliage Plants Anthuriums Cacti Orchids Poinsettia	Aphid Mealybug Thrip Whitefly Scales (Crawlers)	0.5 lb 0.5 lb (8.0 oz) 0.5 lb (8.0 oz)	As aphid begin to appear. As the insects begin to appear. A repeat application, at a 2-week interval, may be necessary for control of Mealybugs and Whiteflies. As Crawlers begin to appear. Repeat applications, at a 2-week or more interval, may be necessary where there is continuous crawler production.	Apply the specified amount of Acephate 97 EG in 100 gal water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage. Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus Antarctica</i> , <i>Ficus Iriangularis</i> , <i>Fittonia verchaffeltii</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachyslachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aweus</i> ,

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General Use Precautions cont'd.:

PLANT	PESTS CONTROLLED	AMOUNT ACEPHATE 97 EG PER 100 GALS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
				<p><i>Polystichum, Pteris ensiformis, Tolmiea menziesii.</i> Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application of Acephate 97 EG on Poinsettias after bract formation may result in phytotoxicity on certain varieties.</p>
	Sweet potato whitefly (except CA)	0.25 lb (4 oz.) + 10.6 fl oz (0.2 lb AI) Tame* 2.4 EC Spray	Apply when insects first appear. If a population is well established, make 1 application of the tank mix and follow 5 to 7 days later with Tame alone at 16.0 fl oz/100 gal. See Tame label for instructions.	For Sweet potato whitefly control, apply the specified amount of Acephate 97 EG plus Tame 2.4 EC. Spray as a tank mix at a volume necessary to obtain good coverage. Follow the Tame label for specific instructions on the alternation of Tame plus Acephate 97 EG and Tame alone and the rotation instructions to avoid potential resistance.
Roses	Aphid Leafroller Thrip	0.5 to 0.75 lb (8.0 to 12.0 oz)	As Leaf rollers begin to appear. Use the higher specified rate within the rate range when the large larvae are present.	Apply the specified amount of Acephate 97 EG in 100 gal water with a hydraulic sprayer as a full coverage spray. Application to Roses in flower may result in flower damage.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

NOTE: This product is sold by weight and package is full when packed and is inclined to settle.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.
PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL:
Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn.
For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

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